

IN THE CLAIMS:

1.-7. (Canceled)

8. (Withdrawn) A semiconductor device comprising:

a substrate having a front surface and a rear surface;

a first insulating film comprising silicon oxide provided over said front surface of said substrate;

a second insulating film comprising aluminum nitride and carbon provided over said first insulating film;

a third insulating film comprising oxide provided over said second insulating film;

a transistor provided over said third insulating film, said transistor having at least a channel formation region comprising crystalline silicon, a gate insulating film adjacent to said channel formation region, and a gate electrode adjacent to said channel formation region with said gate insulating film interposed therebetween.

9.-16. (Canceled)

17. (Withdrawn) The device of claim 8 wherein said substrate is a glass substrate.

18.-23. (Canceled)

24. (Withdrawn) A semiconductor device comprising:

a substrate having a front surface and a rear surface;

a first insulating film comprising silicon oxide provided over said front surface of said substrate;

a second insulating film comprising aluminum nitride and carbon provided over said first insulating film;

a third insulating film comprising oxide provided over said second insulating film;

and

a transistor provided over said third insulating film, said transistor having at least a channel formation region comprising crystalline silicon, a gate insulating film adjacent to

said channel formation region, and a gate electrode adjacent to said channel formation region with said gate insulating film interposed therebetween.

25.-29. (Canceled)

30. (Withdrawn) The device of claim 24 wherein said substrate is a glass substrate.

31.-46. (Canceled)

47. (Withdrawn) The device of claim 8 wherein said channel formation region is crystallized by laser irradiation through a layer comprising silicon oxide on said channel formation region.

48.-52. (Canceled)

53. (Withdrawn) The device of claim 24 wherein said channel formation region is crystallized by laser irradiation through a layer comprising at least one of silicon oxide and silicon nitride on said channel formation region.

54. (Withdrawn) A semiconductor device comprising:
a substrate having a front surface and a rear surface;
a first insulating film comprising silicon oxide provided over said front surface of said substrate;
a second insulating film provided over said first insulating film;
a third insulating film comprising oxide provided over said second insulating film;
an aluminum nitride insulating film containing therein oxygen provided under said rear surface of said substrate; and
a transistor provided over said third insulating film, said transistor having at least a channel formation region comprising crystalline silicon, a gate insulating film adjacent to said channel formation region, and a gate electrode adjacent to said channel formation region with said gate insulating film interposed therebetween;
an interlayer insulating film having a leveled upper surface over said transistor; and
a pixel electrode over said interlayer insulating film,

wherein aluminum to nitrogen ratio in said aluminum nitride insulating film is in the range of 0.9 to 1.4.

55.-59. (Canceled)

60. (Withdrawn) A semiconductor device comprising:

a substrate having a front surface and a rear surface;

a first insulating film comprising silicon oxide provided over said front surface of said substrate;

a second insulating film comprising aluminum nitride and oxygen provided over said first insulating film;

a third insulating film comprising oxide provided over said second insulating film;

a transistor provided over said third insulating film, said transistor having at least a channel formation region, a gate insulating film adjacent to said channel formation region, and a gate electrode adjacent to said channel formation region with said gate insulating film interposed therebetween;

an interlayer insulating film comprising a leveled upper surface over said transistor;
and

a pixel electrode over said interlayer insulating film.

61. (Withdrawn) A semiconductor device comprising:

a substrate comprising a front surface and a rear surface;

a first insulating film comprising silicon oxide provided over said front surface of said substrate;

a second insulating film comprising aluminum nitride and oxygen provided over said first insulating film;

a third insulating film comprising oxide provided over said second insulating film;

a transistor provided over said third insulating film, said transistor having at least a channel formation region, a gate insulating film adjacent to said channel formation region, and a gate electrode adjacent to said channel formation region with said gate insulating film interposed therebetween;

an insulating film over said transistor; and

a pixel electrode over said insulating film.

62. (Withdrawn) The device of claim 60 wherein said substrate is a glass substrate.

63. (Withdrawn) The device of claim 61 wherein said substrate is a glass substrate.

64.-67. (Canceled)

68. (Withdrawn) A semiconductor device comprising:
a substrate;
a first insulating film comprising silicon oxide;
a second insulating film comprising aluminum nitride formed on said first insulating film;
a third insulating film comprising silicon oxide formed on said second insulating film;
a semiconductor film formed on said third insulating film;
a gate insulating film formed on said semiconductor film; and
a gate electrode formed on said gate insulating film.

69. (Withdrawn) The semiconductor device according to claim 68, wherein said semiconductor device is an active matrix display device.

70. (Withdrawn) The semiconductor device according to claim 68, wherein said semiconductor device comprises a pixel portion and a driver portion over said substrate.

71. (Previously Presented) A semiconductor device comprising:
a substrate;
a first insulating film comprising silicon oxide;
a second insulating film comprising silicon nitride formed on said first insulating film;
a third insulating film comprising silicon oxide formed on said second insulating film;
a semiconductor film formed on said third insulating film;
a gate insulating film formed on said semiconductor film; and
a gate electrode formed on said gate insulating film.

72. (Previously Presented) The semiconductor device according to claim 71, wherein said semiconductor device is an active matrix display device.

73. (Previously Presented) The semiconductor device according to claim 71, wherein said semiconductor device comprises a pixel portion and a driver portion over said substrate.

74. (Withdrawn) A semiconductor device comprising:
a substrate;
a first insulating film comprising silicon oxide;
a second insulating film comprising aluminum oxide formed on said first insulating film;
a third insulating film comprising silicon oxide formed on said second insulating film;
a semiconductor film formed on said third insulating film;
a gate insulating film formed on said semiconductor film; and
a gate electrode formed on said gate insulating film.

75. (Withdrawn) The semiconductor device according to claim 74, wherein said semiconductor device is an active matrix display device.

76. (Withdrawn) The semiconductor device according to claim 74, wherein said semiconductor device comprises a pixel portion and a driver portion over said substrate.

77. (Withdrawn) A semiconductor device comprising:
a substrate;
a first insulating film comprising silicon oxide;
a second insulating film comprising aluminum nitride formed on said first insulating film;
a third insulating film comprising oxide formed on said second insulating film;
a semiconductor film formed on said third insulating film;
a gate insulating film formed on said semiconductor film; and
a gate electrode formed on said gate insulating film.

78. (Withdrawn) The semiconductor device according to claim 77, wherein said

semiconductor device is an active matrix display device.

79. (Withdrawn) The semiconductor device according to claim 77, wherein said semiconductor device comprises a pixel portion and a driver portion over said substrate.

80. (Previously Presented) A semiconductor device comprising:
a substrate;
a first insulating film comprising silicon oxide;
a second insulating film comprising silicon nitride formed on said first insulating film;
a third insulating film comprising oxide formed on said second insulating film;
a semiconductor film formed on said third insulating film;
a gate insulating film formed on said semiconductor film; and
a gate electrode formed on said gate insulating film.

81. (Previously Presented) The semiconductor device according to claim 80, wherein said semiconductor device is an active matrix display device.

82. (Previously Presented) The semiconductor device according to claim 80, wherein said semiconductor device comprises a pixel portion and a driver portion over said substrate.

83. (Withdrawn) A semiconductor device comprising:
a substrate;
a first insulating film comprising silicon oxide;
a second insulating film comprising aluminum oxide formed on said first insulating film;
a third insulating film comprising oxide formed on said second insulating film;
a semiconductor film formed on said third insulating film;
a gate insulating film formed on said semiconductor film; and
a gate electrode formed on said gate insulating film.

84. (Withdrawn) The semiconductor device according to claim 83, wherein said semiconductor device is an active matrix display device.

85. (Withdrawn) The semiconductor device according to claim 83, wherein said semiconductor device comprises a pixel portion and a driver portion over the substrate.

86. (New) The semiconductor device of according to claim 71, wherein said semiconductor film is crystallized by laser irradiation through a layer comprising silicon oxide on said semiconductor film.

87. (New) The semiconductor device of according to claim 80, wherein said semiconductor film is crystallized by laser irradiation through a layer comprising silicon oxide on said semiconductor film.